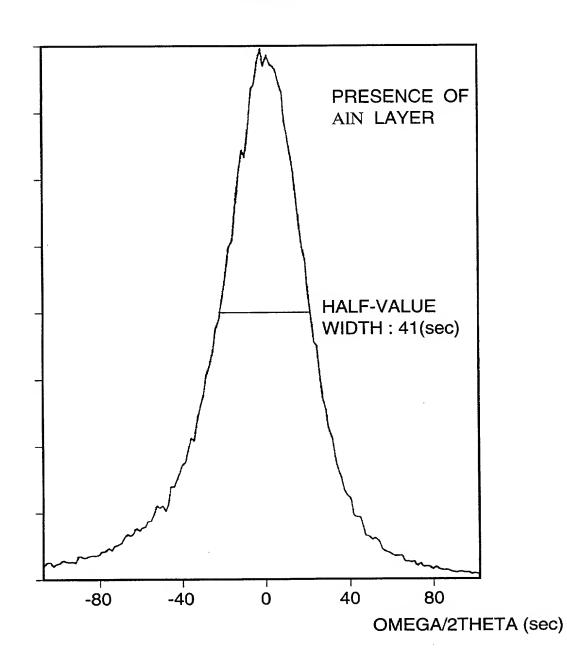
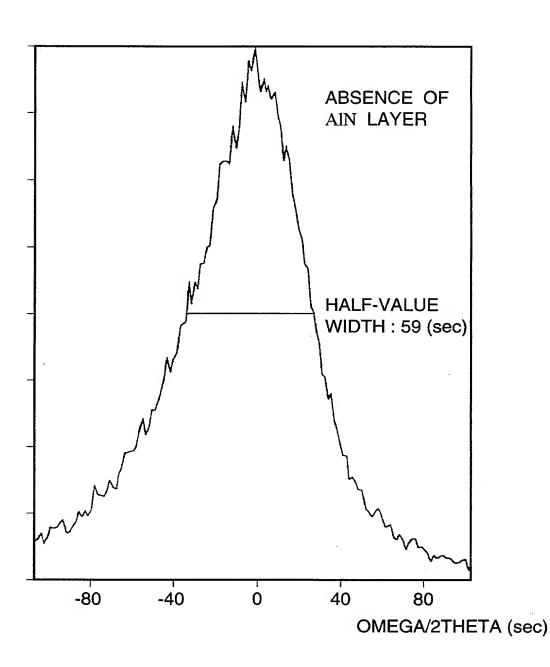


FIG.5









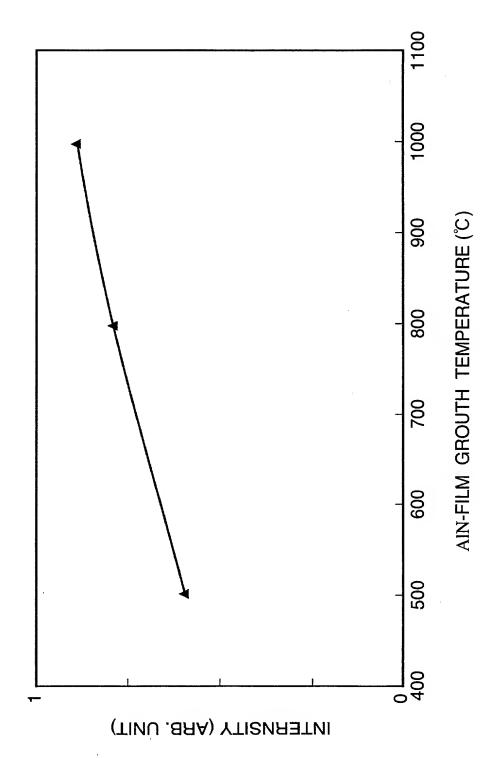


FIG.8



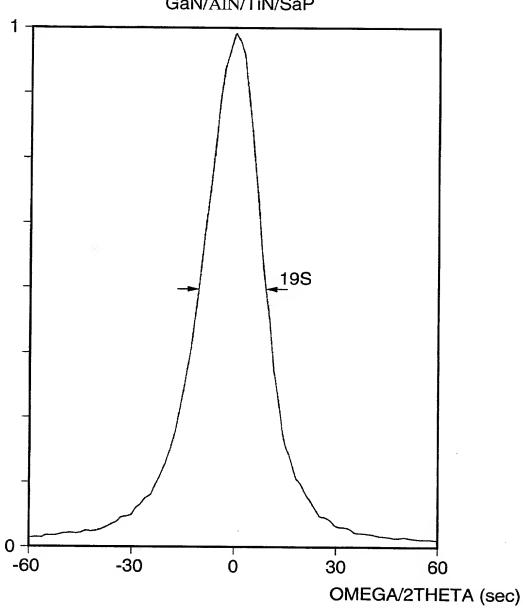
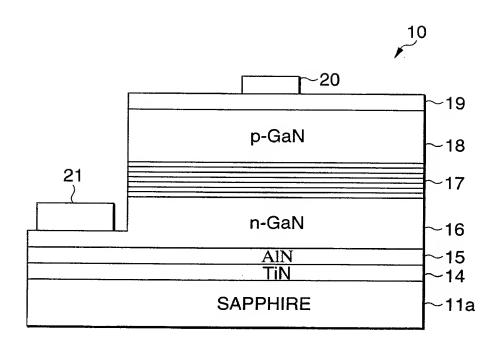


FIG.9



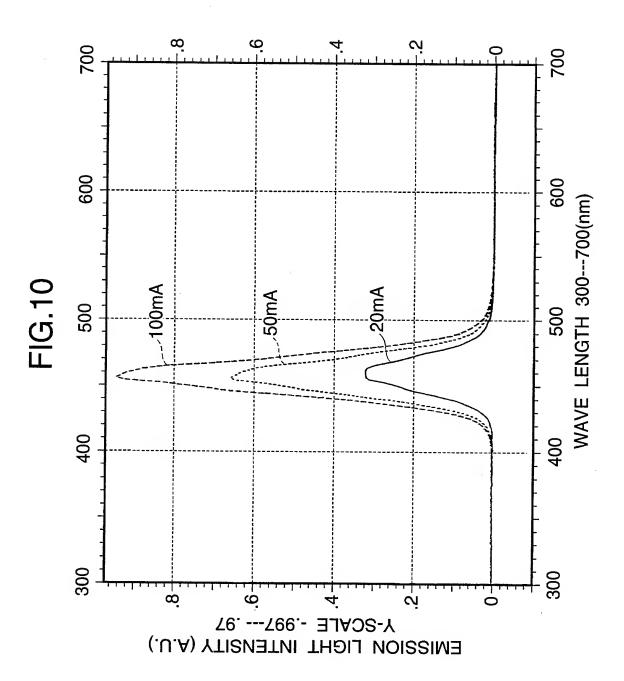
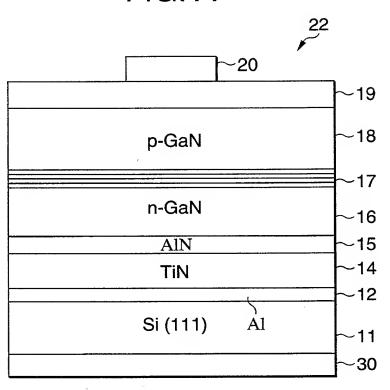
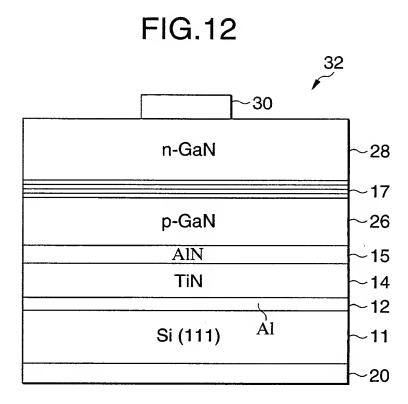
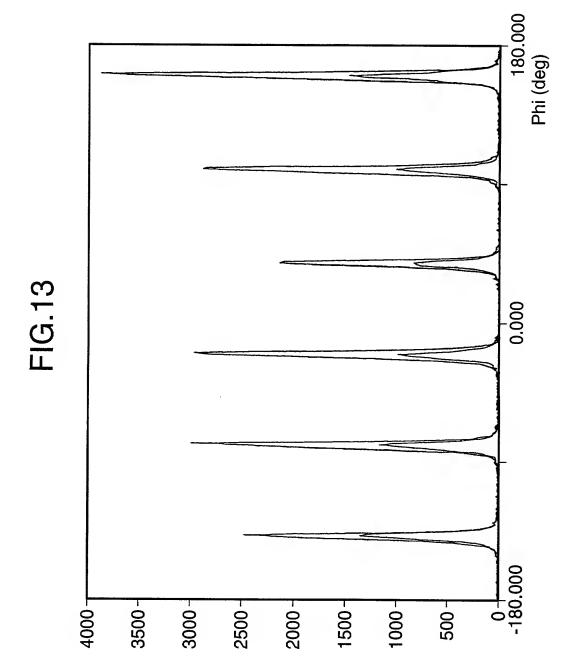


FIG.11

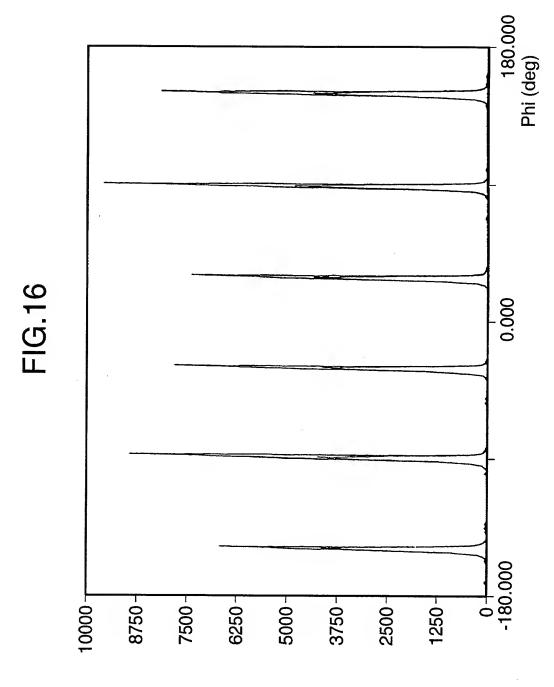


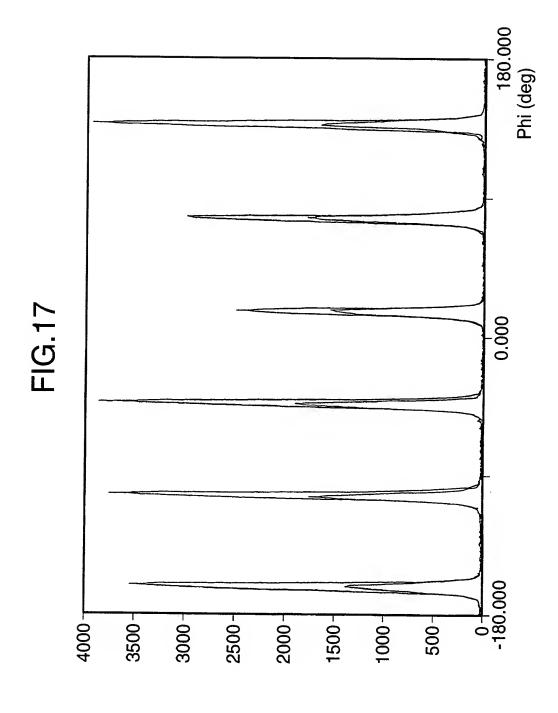


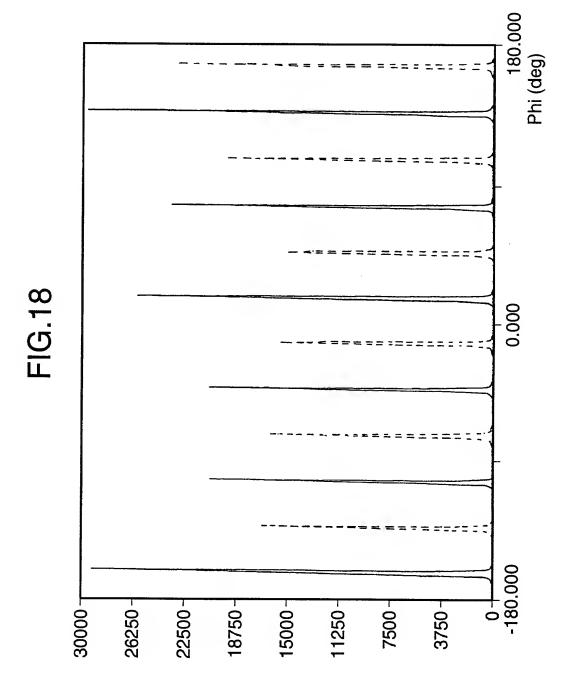


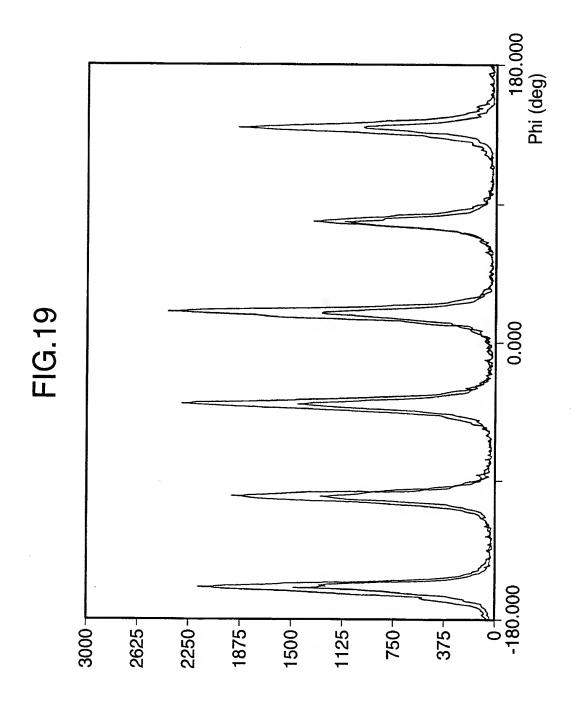
360 ----- TiN(200) Phi SCANNING FIG.14 180 ANGLE(°) 2000 4000 3000 2000 X-RAY PEAK INTENSITY

360 300 Ti (15000Å)/TiN (5000Å)/AI/Si Ti Phi SCANNING FIG.15 Phi(゜) 180 120 9 0.2 0.8 1.2 Phi DIFFRACTION PEAK INTENSITY (A.U.)



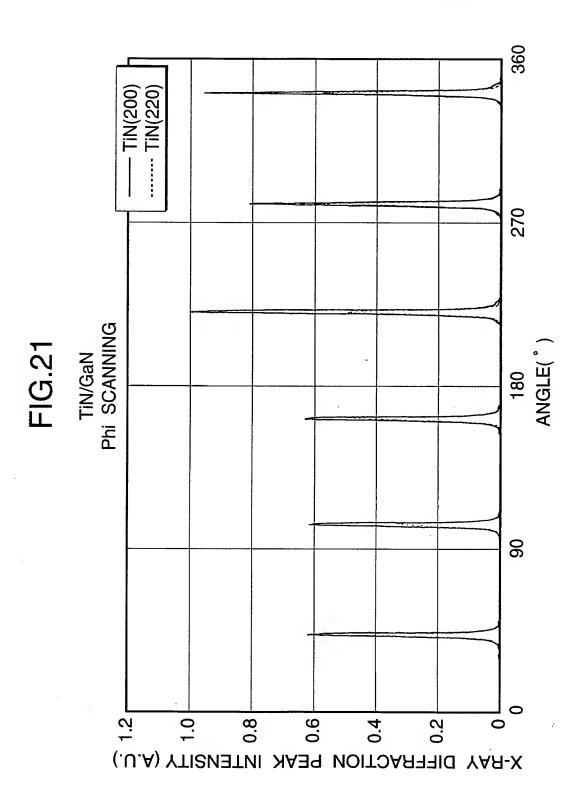






360 270 Tin/A1203 Phi SCANNING FIG.20 180 ANGLE(°) 90 X-RAY DIFFRACTION PEAK INTENSITY (A.U.)

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360 Ti/TiN/GaN Phi SCANNING 180 ANGLE(°) 0 X-RAY DIFFRACTION PEAK INTENSITY (A.U.)

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FIG.23

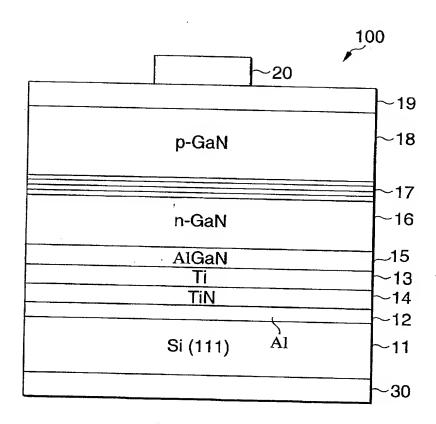


FIG.24

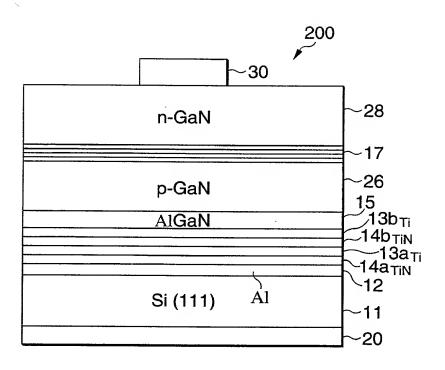


FIG.25

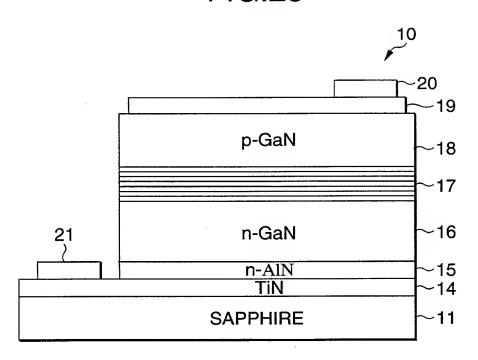


FIG.26

